FOTG Section V Page 1 of 2

Impacts Case Study - Hawaii

(comparison of effect of benchmark and treatment)

Conservation Effects Worksheet

Orchard - Macadamia (land use and crop)

Resource Setting: Pahala, Hawaii

Shallow soils over pahohoe.

Moderate to steep sloes.

Highly erodible.

Conservation Treatment:

Field Windbreaks (392) Permanent Vegetative Cover (340)

Diversion (362) Mulching (484)
Terrace system (600) Filter Strips (393)

Grassed Waterways (412) Pest Management (595)

Irrigation System (441) Nutrient Management (590)

Sediment Basin (350)

Resource Problems Before Treatment:

Sheet and rill erosion Orchard trees planted in waterways

Gully erosion Close tree spacing (orchard)

Nutrient and pesticide in runoff

Terraces not maintained

No vegetative cover within orchard

IMPACTS	DECISIONMAKERS EVALUATION	
	(+ / -)	Comment
Terraces every 200 feet	-	High construction cost
Reduces soil loss by 50%	-	High maintenance
	+	Not too much left
Establish Waterways	+	Less infield damage
Removes trees within waterway	-	High cost of tree removal
Eliminate gully	-	Less trees/acre
Wildlife Habitat	+	Less pukas
	+	KESS
Plant vegetative cover	-	Less harvest efficiency
Reduce soil loss by 50%	+	
Increase spacing - remove every other	-	High cost of tree removal
row	-	Lower sales value
Wildlife habitat	+	
Biological Control	+	Reduce pesticide runoff
	-	Research cost high
	+	Support bugs for a bug
Mowing	+	Reduce nutrient runoff
	-	Labor Intensive
	-	Equipment cost high

Comments:

Evaluations made by the decision maker does not always reflect the views of SCS.